

2-Methyl-2-propenyl p-tolyl sulphone

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|-----------------------------|---|
| Inchi: | InChI=1S/C11H14O2S/c1-9(2)8-14(12,13)11-6-4-10(3)5-7-11/h4-7H,1,8H2,2-3H3 |
| InchiKey: | KKSRFROTRSZRSD-UHFFFAOYSA-N |
| Formula: | C11H14O2S |
| SMILES: | C=C(C)CS(=O)(=O)c1ccc(C)cc1 |
| Mol. weight [g/mol]: | 210.29 |
| CAS: | 16192-04-4 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|-----------------|---------|----------------|
| chs | -6583.50 ± 1.20 | kJ/mol | NIST Webbook |
| gf | -244.73 | kJ/mol | Joback Method |
| hf | -241.00 ± 3.00 | kJ/mol | NIST Webbook |
| hfs | -348.00 ± 1.30 | kJ/mol | NIST Webbook |
| hfus | 26.69 | kJ/mol | Joback Method |
| hsub | 107.00 ± 3.00 | kJ/mol | NIST Webbook |
| hvap | 61.06 | kJ/mol | Joback Method |
| log10ws | -2.75 | | Crippen Method |
| logp | 2.345 | | Crippen Method |
| mcvol | 165.880 | ml/mol | McGowan Method |
| pc | 3243.03 | kPa | Joback Method |
| tb | 527.08 | K | Joback Method |
| tc | 731.65 | K | Joback Method |
| tf | 275.51 | K | Joback Method |
| vc | 0.651 | m3/kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 363.55 | J/molxK | 527.08 | Joback Method |
| cpg | 378.87 | J/molxK | 561.18 | Joback Method |
| cpg | 393.33 | J/molxK | 595.27 | Joback Method |
| cpg | 406.95 | J/molxK | 629.37 | Joback Method |
| cpg | 419.75 | J/molxK | 663.46 | Joback Method |
| cpg | 431.74 | J/molxK | 697.56 | Joback Method |

Sources

| | |
|------------------------|---|
| Joback Method: | https://en.wikipedia.org/wiki/Joback_method |
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |
| NIST Webbook: | http://webbook.nist.gov/cgi/cbook.cgi?ID=C16192044&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| Crippen Method: | https://www.chemeo.com/doc/models/crippen_log10ws |

Legend

| | |
|-----------------|--|
| chs: | Standard solid enthalpy of combustion |
| cpg: | Ideal gas heat capacity |
| gf: | Standard Gibbs free energy of formation |
| hf: | Enthalpy of formation at standard conditions |
| hfs: | Solid phase enthalpy of formation at standard conditions |
| hfus: | Enthalpy of fusion at standard conditions |
| hsub: | Enthalpy of sublimation at standard conditions |
| hvap: | Enthalpy of vaporization at standard conditions |
| log10ws: | Log10 of Water solubility in mol/l |
| logp: | Octanol/Water partition coefficient |
| mcvol: | McGowan's characteristic volume |
| pc: | Critical Pressure |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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